

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Ma Shiping	
Application No.: 10/004,978	
Filed: 12/3/2001	Group Art Unit: 1711
Title: Flame Retardant Resin Composition and Molded Products Thereof	Examiner: U. Rajguru
Attorney Docket No.: GEPL-P-080	Confirmation No.: 7848

DECLARATION UNDER RULE 132

The undersigned declares as follows:

1. I am the named inventor in the above-referenced application, and as such I am familiar with the application, including the claims.
2. The examples in the above-referenced application show the unexpected benefit of compositions that contain both a phosphorous ester and a specific type of siloxane, specifically that the composition are self-extinguishing within a short period of time, as reflected in the burn time results. An additional example using a different phosphorous ester, resorcinol disphosphate (RDP) is set forth in Table 1 of this declaration. As can be seen, with RDP, as with BPADP, the burn time is significantly reduced, and the UL fire rating improves from V-1 to V-0.

Table 1		
	Exam.	Comparative example
Polycarbonate( A1)	84	84
ABS( A 2)	10	10
RDP( B)	4	4
Silicone (C1 )	1	
Silicone ( C2 )		
Silicone ( C3 )		
Silicone (C4 )		
Silicone (CS )		
PTFE ( D)	0.5	0.5
Impact resistance	50	65
IZOD (kg ·cm/cm)		
Deflection	108	110
temperature under loading (°C)		
Initial PC	45000	45000
molecular weight		
After aging PC	37000	37000
molecular weight		
Burn time of 1.5mm thickness sample	25	65
UL94(Sec)		
UL rating	V-0	V-1

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine

or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

dated: Aug. 31, 2003

Ma Shipping  
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